have to pay for the service and the long distance call themselves. And I remember when I got my first Alaskanet account from Hooper Bay, my phone bill -- I ran up about a \$1,000 phone bill a month. And that didn't last very long I'll tell you. And -- but -- yeah, we've got people -- I mean, you ask people how do you get internet? They're out in the village. Oh, AOL, you know. Well, they're paying by the minute for a long distance call for maybe, maybe, a 14.4 connection.

Are your current needs for advanced services being met?

If not, how and why are your current needs unmet. Well, as far

solver contracts are concerned, schools are receiving fairly

adequate bandwidth. The first year of contracts resulted in

sessentially 56 K circuits. Now all schools and districts have

either got 128's or 256's. In addition, the Lower Kuskokwim

School District brings a full T-1 in Bethel, which is then

split up between multiple school locations and the, excuse me,

school district's central office, using Part 15 wireless

modems.

And I'd just like to say on that it would be really
helpful for schools around the country as well as for the
E-Rate funding from a conservation perspective if the
Commission would take a very, very serious look at making
wireless modems an eligible purchase as last mile equipment.
It's unconscionable that school districts are not allowed to

help save money on the E-Rate costs.

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How do you think advanced services will be used to deliver 2 3 education in five years? Well, there's little doubt in my mind 4 that in five years school districts will be making extensive 5 use of increased bandwidth and substantially newer technologies 6 to deliver enriched curriculum to individual students as well 7 as to entire classes. Interactive video along with large 8 graphical interface devices like white boards will be in general use. Video and content streaming will be the norm. 10 think probably there will be some big either privately owned or 11 collective through school districts serve rooms here in 12 Anchorage just to facilitate that. But, you know, at the 13 present rate of deployment by Alaska's carriers and LECs on a 14 cost/benefit, i.e. profitable, basis under current costs, I do 15 not believe that there will be ubiquitous internet access 16 available across the state in five years. I just want to talk real quick about peering. I said that

I just want to talk real quick about peering. I said that video teleconferencing doesn't work very well when you have 20 19 hops to go less than a mile in Bethel between a classroom at 20 the University of Alaska and Lower Kuskokwim District central 21 office, because the route goes from Bethel to Fairbanks to 22 Seattle to San Jose, California, and at one time it went to 23 Chicago, and then back up through the fiber cable to Anchorage 24 and then out to Bethel. It's my understanding that there are 25 maybe some peering agreements pending between at least GCI and

the University. 1

But I would encourage the Commission, both Commissions 2 3 actually to examine closely the issue of what I understand to 4 be AT&T's refusal, World Net's refusal to peer with anybody 5 unless they're, you know, like an OC-500 carrier. And it's an 6 impediment to Alaska's economic development, and it's an 7 impediment to the deployment and use of advance services by the 8 education community, K-12 through college, that we have got 9 these ridiculously long interstate routes for IP carriage. 10 There's no technical reason for it, there's no economic reason 11 for it, and there's no moral reason for it. 12

LT. GOV. ULMER: Mark, I'm going to have to.....

13 MR. SPRINGER: Sure.

14 LT. GOV. ULMER:cut you off, but thank you very 15 much. I appreciate it. I'd like to turn to the Commissioners 16 to see if they have some questions at this point of any of the 17 panelists?

18 COMMISSIONER NESS: Thank you. I very much appreciate 19 your comments and thoughts. A quick question. Has anyone 20 thought about using IFTS/MDS for delivery of broadband 21 communications? Is that at all feasible here?

22 MR. SPRINGER: I don't know what it is.

23 COMMISSIONER NESS: Okay.

24 I would say, no, I haven't. MR. SPRINGER:

25 COMMISSIONER NESS: Okay. This is typically with universities, it's a ca -- sort of a cable type service, cable channel service where the University would lease a portion of their capacity, their instructional/informational capacity to cable companies or wireless cable companies, and the wireless cable companies could provide lots of additional channels, and that's sort of a shared use of the spectrum.

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Well, we've recently made that spectrum available at 12.5 8 gigahertz I believe it is, to -- for use -- I'm sorry, not 9 12.5, 2.5 gigahertz, for two-way digital communications. And 10 so now it's one of those bands that's being looked at for 11 third-generation mobile services, but it also could provide 12 fairly attractive fixed wireless broadband services.

I just was curious to see if any of the universities or 13 14 the educational institutions that you've been dealing with have 15 licenses to do that, whether that's a possibility. I don't 16 know how far in distance it travels. My guess is, you know, 17 probably 10 or 12 miles, but it could be beyond that in radius.

MR. SMITH: The University has not ex -- there's been 19 discussions, but they've been very preliminary for rural areas. 20 We are discussing that with one company, Wireless Cable, that 21 offers those kinds of services, but that primarily has been 22 looked at within the urban areas. We wold love to try and do 23 that in the rural areas, but we haven't found a model that 24 works yet.

COMMISSIONER NESS: It may not extend far enough. As you

were talking, I just was wondering whether or not this was perhaps yet another option that had recently been made available.

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Also, I want to follow up on the wireless modems, Mark. MR. SPRINGER: Sure.

COMMISSIONER NESS: I was under the impression when we wrote our rules that we were trying to be technology neutral. Can you describe the problem that you're having with wireless modems?

10 MR. SPRINGER: Well, sure, apart from the fact that 11 they're not an eligible purchase under USF. You can buy 12 telephone switches, but you can't buy wireless modems.

13 In 1997 during your visit to Bethel and Hooper Bay, 14 Commissioner Ness, the Distance Delivery Consortium was ready, 15 using an NTIATF grant to roll out an aggregated bandwidth 16 model, what we were calling the village area networks, using 17 unlicensed wireless local loops to provide T-1 last mile 18 connections from a single village pop, most likely the school 19 house to the health clinic, the library, and what we would hope 20 would be USF eligible local governments, tribal and municipal. 21 Regrettably, the local exchange carrier contended that our 22 solution to the thorny last mile question, which obviously 23 would have not required recurrent costs, since we would be

copper plant.

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The fact remains, however, that the members of the DDC recognized the importance of -- to network efficiency and bandwidth conservation and the judicious application and use of public dollars, i.e., USF funds several years ago. The only objection to our original solution was that it would save money for public and tribal agencies.

MS. BROWN: May I try this?

COMMISSIONER NESS: Yes.

10 MS. BROWN: Let me just try to correct the record a little 11 bit. The covered services do not include the switch. What 12 they do include is the internal.....

13 UNIDENTIFIED VOICE: (Indiscernible - simultaneous 14 speech)....

MS. BROWN:network and thus some routers are covered. And the tension here has been between making sure that the district or the school could put together its own internal network while at the same time not sending federal education funds, if you will, to the switch.

Now, to the extent that you're talking about a wireless 21 modem on the internal system of the district, I think that's 22 something that one could look at and raise. But I just wanted 23 to clarify that the switch really is not covered.

MR. SPRINGER: Yeah, there's....

MS. BROWN: Okay. Yes. Okay.

MR. SPRINGER:20 (ph) pages on the list and I 1 2 exaggerated.... 3 MS. BROWN: Right. But.... 4 MR. SPRINGER:a little bit, but..... MS. BROWN: But it's an important issue, because it's one 5 6 where the Commission drew a line, and so it -- you know, for 7 funding purposes, it's important to think about what's on one side and the other side of the line. 8 9 COMMISSIONER NESS: Okay. Because I do recall that within 10 a school or within a building, for example, wireless solutions 11 are perfectly appropriate solutions. In fact, they were used 12 in a number of places where there was asbestos in the 13 school, 14 MS. BROWN: Right. COMMISSIONER NESS:and it was the only way that you 15 16 were going to be able to get those connections, which is why I 17 studiously avoid saying wiring schools, and usually use 18 connecting classrooms. But that -- you're saying that what you 19 were looking at was something not within the school, but from 20 the school to another location? MR. SPRINGER: Well, actually in some cases school 22 districts that had multiple locations within a village would 23 have used some of that wireless equipment to connect their 24 locations, but again even -- let's just use that as an example.

25 Let's say a school district -- well, the Lower Kuskokwim School

District in Bethel purchased out of pocket wireless modems to connect multiple schools in the central office to their single pop. They had to go out of pocket, because wireless radio equipment is not an eligible purchase on the USF approved list.

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There's -- you know, the list that everybody's seen, and the list is 20 pages long, wireless modems are an unapproved purchase. And there are num -- and in the Lower Yukon School 8 District, they've used wireless equipment to connect multiple rooms. You know, a lot of our village schools, we have the 10 original school, and they've had to add on outer buildings, 11 and....

12 COMMISSIONER NESS: Yeah. Well, I'm going to check into 13 that, because it -- again, depending upon what it's being used 14 for, there ought to be a way of being technology neutral and 15 being efficient, and wireless is one of the most efficient 16 systems for a lot of circumstances. So I'll try to check into 17 it and see whether we fully understand what it is the rules are 18 attempting to accomplish, and whether or not there needs to be 19 a change there.

20 Similarly, we have the -- at five gigahertz, the NII 21 band, a nd I don't know if anybody is using that unlicensed band 22 to communicate back and forth between schools or between 23 facilities.

MR. SPRINGER: Well, most of the equipment that's in --24 25 being used in Alaska is 900 megahertz, and 1.2 gigahertz,

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COMMISSIONER NESS: Uh-huh.
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       MR. SPRINGER: As far as I know, nobody's using....
       COMMISSIONER NESS: Maybe that the equipment....
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       MR. SPRINGER: ....anything different -- higher.
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       COMMISSIONER NESS: .....is not yet available at a
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  reasonable cost, and that's another thing....
       MR. SPRINGER: Uh-huh.
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       COMMISSIONER NESS: .....that I'm taking away from the
10 conversations that I've had here in Alaska to go back and check
11 on. You're giving me a real laundry list of things to check
12 on, but I'm delighted to have that laundry list.
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       LT. GOV. ULMER: Nan, do you have anything?
      COMMISSIONER THOMPSON: Yeah, I do, I could ask --
15 Mr. Cary, you said during your remarks that you were concerned
16 about what the future was going to be for distance education,
17 and we are, too. That's why we're here. What I'm hoping for
18 is some practical suggestions from you, as someone who I know
19 to have been in the trenches in a couple of different places in
20 the state, what can we as regulators and policy makers do to
21 make it happen, to make it be moving in the direction it should
22 be?
       MR. CARY: Thanks, Commissioner Thompson. The number one
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24 issue that we seem to run into is the school districts are in
25 the business of K-12 education, and while they do have
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1 unlicensed equipment.

1 technical, for instance, on staff to support their -- just their internal networks, they don't have the technical 3 capability, nor really have the resources to invest in that to 4 implement some of the technologies required to take advantage 5 of these circuits for the delivery of distance education. 6 COMMISSIONER THOMPSON: Uh-huh.

7 MR. CARY: And we very strongly feel that in order for 8 distance education in Alaska to be successful, it needs to 9 become a service, as in the infrastructure to support the 10 delivery of online courses, and streaming audio and video 11 content, and even two-way video, that those need to become 12 services that maybe even potentially are funded under E-Rate 13 rather than just the connectivity, because the connectivity is 14 great if you've got technical folks. If -- to implement 15 complex applications beyond that, it's a real barrier. 16

COMMISSIONER THOMPSON: Thank you.

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LT. GOV. ULMER: I might just note briefly on that point, 18 when we were walking through the Noatak School, I guess it was 19 yesterday.

COMMISSIONER THOMPSON: Yeah, it was yesterday.

LT. GOV. ULMER: Like yesterday. I spoke with a teacher 21 22 who was in on Sunday doing a little bit of homework, as 23 teachers often do on Sundays, and I asked him who took care of

24 their telecommunications needs in the village, in the school.

25 And he said, well, of course, we don't have anybody on staff to

-- we can't pay anybody to do that, but it just so happens that our kindergarten teacher, who's really young, he's just out of college, knows a lot about computers, you know, so in his spare time he kind of does what needs to be done in this school.

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I think it makes your point. I mean, many of the schools are too small, or they couldn't afford somebody, or the school budgets are too tight. And if you're really lucky and you know, you know, happen to have somebody who knows how, great. If you're in a school district where you've got a central office that's convenient and staff to be able to do it, great. If not, what do you do? So what if you're wired? Being wired isn't enough.

COMMISSIONER THOMPSON: Now I'm reminded of, I think it was Saturday for this one, but when we were at -- in the clinic, and they were talking about, oh, we saw a demonstration of the next generation in terms of telemedicine applications in the villages where it's a touch screen technology, to make it easy for people who don't have a lot of technical training, their training is in delivering medical services, to apply and use the technology. It was wonderful because it was set up so you could touch the screen and get the different applications you needed. And maybe that's the innovation, the missing link in education.

COMMISSIONER NESS: Or maybe the missing link is to get 25 one 12 year old from each village.

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COMMISSIONER THOMPSON: That's right.
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       UNIDENTIFIED VOICE: Yeah. Yeah.
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        COMMISSIONER NESS: And somehow send those 12 year olds to
   be trained, and then at least you have those 12 year olds for
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   an extended period of time because they adapt so quickly.
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       LT. GOV. ULMER: Other comments? Yes, Dave?
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       MR. FAUSKE: Just -- that's a very good point. There are
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  situations, and getting back to this school custodian.....
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       LT. GOV. ULMER: Uh-huh.
       MR. FAUSKE: ....paradigm I gave somewhat clumsily. When
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11 a Cessna 206 leaves Barrow, and there's a technician from ASTAC
12 in it, and there's a technician from NSS, and there's a
13 technician from GCI or AT&T, and the plane lands in Wainwright
14 or Point Lay, and the three people get out and walk over to the
15 central office or an adjoining building, and stand side by side
16 and tweak dials, and then get back on the airplane a day and a
17 lot of dollars later and fly back to Barrow, that's not right.
       And I think in the vein of Senator Stevens' recent letter
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19 about seeking some kind of a consensus solution here, those
20 support services as Martin pointed out, are vitally
21 needed, ....
       LT. GOV. ULMER: Uh-huh.
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       MR. FAUSKE: ....but we also have a situation where cost
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24 exceeds price, and competition's going to drive price to cost,
25 which is higher. And we need to find the maximum number of
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efficiencies and cooperative effort I think. So it may be a 12 year old, because they probably have the edge on the technology, but it ought not to be duplicate services in high-cost areas.

LT. GOV. ULMER: Okay.
MR. FAUSKE: Thank you.

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MR. BECKLEY: Yeah. To underscore what they're saying, for instance, in our district we have six schools, four of them are under 20 students, so they're two teacher schools. It's a phenomenon that I call techno-paralysis. And our mission in education is to teach kids. That's what we do. But our schools are becoming sophisti -- so technologically sophisticated and dependent that technology can threaten to become your mission. And when one thing goes wrong, your entire mission comes to a grinding halt. And that certainly is one thing that we look for in a vendor in our E-Rate proposal, is someone who can take that piece away. We would rather put our dollars toward education.

And one of the other things that I think is becoming very apparent in our region as it is in the country, and that is that we need to develop IT workers within our regions. Virtually every dollar, technology dollar that we spend in the Aleutians East as in other areas, goes out, whether it's to buy a computer, whether it's to buy internet access, repair computers, buy software. You name it, the dollars go out. And

1 that is a real home-grown industry, and a real opportunity for 2 our students.

LT. GOV. ULMER: Uh-huh. Any other questions on....

MS. BROWN: Could I....

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LT. GOV. ULMER: (indiscernible)?

MS. BROWN:just for a moment? I just want to thank you. After spending about five years on getting the E-Rate program in place and fighting what was at times a very bitter battle in Washington, a very bitter personal battle, we were held up as doing something actually wrong when, indeed, we thought what we were doing is very right, that to sit here and hear the -- your remarks that in fact the lights have been turned on is really just a gift to us, so I thank you for your comments.

Let me just say this to you, though, having still every year going through this battle about what you call the people thattle, and I think you're right, it's about people on the other end. But understand that these issues, these policy issues get translated into money matters. And so I think it's important what we heard over today about aggregating demand, using capacity efficiently, about using new technologies that can be use amongst and between users, because in the end it will come back to us to ask whether these dollars are being spent wisely, efficiently, and are they the best use. And so I think it's important for the user community to also put their

heads into the sort of economic community. Are we doing this well? Are we doing it right? Are we doing it the best we can? So I would keep urging that analysis.

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And the other point is one that I loved that you made, that in fact the state really is -- has two different 6 characteristics, and one is a wired kind of fiber network 7 characteristic, and the other is not. And that resonated with 8 me that perhaps while we think about what tweaks we can make, 9 that that might be a place we might look. That if -- there's 10 really a vast difference in what we mean by quote/unquote 11 rural. Do we mean rural, or do we really mean insular? 12 maybe we can think about what the public policy issues should 13 be there.

And then finally, on the internet applications I would 15 suggest that when we look at IP telephony, for instance, and 16 the new applications over IP, that that may be an area where 17 distance learning can take off. I've seen the commercial 18 applications for IP telephony with data and voice combined. 19 And particularly here, once that connection is in, the question 20 is whether that wouldn't be another way to think about the 21 delivery of voice with data. And we'd love to talk with you 22 about that.

We prepared an extensive report for Senator Stevens on 23 24 this very issue, and I suspect that it's going to come up again 25 very soon in that AT&T is now talking about a commercial

offering of IP telephony, and so it's going to get back on the table, and it seems to me that particularly in rural areas that we ought to be thinking about how those technologies can be used to deliver the kind of services you're thinking about. LT. GOV. ULMER: Well, thank you very much to our panel. It was a very interesting panel. We want to thank you also for 7 what you're doing, each and every one of you, to make distance 8 education a reality in Alaska. I appreciate your leadership, 9 and thanks for joining us today. 10 We'll take a ten-minute break before we begin our final 11 panel on economic development. Thank you. (Off record - 2:13 p.m.) 12 13 2055 (Tape change) 14 15 Tape 4 16 0015 17 (On Record - 2:27 p.m.) LT. GOV. ULMER: Our next panel, the economic development 18 19 panel, thank you for joining us. Once again, I will just 20 introduce you one at a time and after I do your introduction if 21 you'd share about five minutes or so of observations, answering 22 some of the questions we asked or whatever you would like to 23 share with us.

Consulting. His company is in a joint venture with Calista to provide business and technology service to all of Alaska. 2 3 Joseph Davis.

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MR. DAVIS: Thank you, Lt. Governor and thank you 5 Commissioner Thompson and Commissioner Ness and the FCC staff and RCA and all of you out there. Is the glare too much off of my head, is it okay out there? Okay.

My name's Joseph Davis and I have a joint venture with 9 Calista Corporation for business and technology development in 10 Alaska. Of course, we're focusing primarily on the Calista 11 region to start with, but we're looking for a larger area and 12 that includes information technology infrastructure. So I want 13 to start off today by giving you my bottom line first and then 14 get into a couple of details.

The bottom line is sustainable economic development in a 16 common telecommunications infrastructure. So what that means 17 is sustainable economic development has to happen for any of 18 this to work. One of the questions is what will -- I think 19 that's number four actually or regulator's three. How can the 20 regulators be assured that our efforts to deploy advanced 21 services will enhance economic opportunities and one is with 22 the concept of sustainable economic development and a common 23 infrastructure.

24 Schools are not in the business for providing internet 25 services, neither are clinics, but a common infrastructure

service that could lease out those services to the schools and other third party, nonprofits, et cetera is, I think, really what we really have to look at in such a small village kind of setting in rural Alaska.

So, one, how does the ability -- excuse me, the
availability or lack of access to advanced services in rural
communities affect economic development? Do you know one of
the people that I deal with is with WAVE and WAVE Stores,
that's Western Alaska Village Enterprises, and they provide
groceries to villages all over the Calista and actually beyond
the Calista region.

This fellow to update the data base in those village
13 stores that have computers puts it on two identical floppies,
14 puts the floppies in an envelope. They're mailed to Bethel and
15 they're put on a plane to go out to the village. The reason
16 that he sends to identical ones is because one of the floppies
17 may die enroute. There is no return data. There's no
18 connection for a two-way communication, so the disk's always
19 going one way and not the other. That's a lack of services
20 that we can see right there. In stores that are owned WAVE is
21 a network of groceries stores in Western Alaska that could
22 seriously use the internet for their businesses.

I got a call from Chevak -- excuse me, Chefornak, a fellow 24 wanted to sell dog sleds. He'd been on the web. He checked 25 out web sites. We wanted my company to build a web site.

Well, that was great except the only place he could access it was at the school which is, of course, we know not exactly the way that we're going to do business.

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4 I recently spoke to a woman from Gambell who wants to 5 provide an art and crafts and jewelry web site, can't communicate with the people in Gambell. She actually lives in 6 7 Anchorage, wants to sell them outside through a web site and can't communicate with the artists there. So the lack of 9 availability is extreme in a commercial sense, where they can 10 walk next door to the school and surf. It's quite ironic. How can regulators be assured of efforts being used? And 12 that is by involving the people economically on the local 13 level, on the local and regional basis because we have regional 14 corporations as well as local groups. Including in that 15 training which, I think, is prime for Eric (ph) right now to 16 provide those kinds of services. And education, which you can 17 get online once you have those abilities to get online and 18 small business and economic development needs to happen 19 concurrently.

I've lived in the Bush 20 years, I've seen many programs
the given to the Bush, large infrastructures produced, but
without the training and the long term economic sustainability,
this it's a short time fix. It's a -- you get a job and you build a
building or you build a road and so you've got a new snow-go
for the next couple winters and that's about what you have to

show for it. So it really is small business training, economic development on a local and a regional basis.

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The last question was how will demand for advanced services increase? Well, we've seen in the Lower 48 two spectacular events happening, my mother and my father are on the web. And if that doesn't say that's something's going to happen in the world then nothing will, but if people are calling from Chefornak for web sides to sell dog sleds we can see that it's going to take off.

I'd ask you to look at Toksook Bay, they have the last 11 mile, it's wireless and they have so many great skills that you 12 can see evinced in their web sites. It's not particularly a 13 full commerce site, but they have the skills to produce it and 14 it's a wonderful example of what could happen, so.....

15 LT. GOV. ULMER: Thank you very much. Our next panelist 16 will be Jack Rhyner. Jack is the president of TelAlaska which 17 is a family of companies that provide local and long distance, 18 cable television, internet and other network services to 19 customers throughout rural Alaska. Jack.

MR. RHYNER: Thank you. I thought I would address my opening remarks to what I thought was the most important question which you asked us, which was how will the demand for advanced services increase during the next five years in rural communities? There's absolutely no reason to suspect that demand for advance services will be any less in rural areas

than it will be in urban areas. In fact, once deployed the demand may even be greater in rural areas on a per capita basis because there are so few alternatives for education, entertainment and economic development.

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I can tell you from experience that once we deployed Dial-Up access in rural communities the demand for access and for more bandwidth was almost insatiable. Our customer to modem ratio is less than half that of a normal urban ISP because 9 everyone that has access wants to be on long all of the time.

10 I'm sure that as we complete Beta testing for both cable 11 modems and DSL and deploy these services we will see the very 12 same effect. Usage, which is a function of demand, has been 13 increasing almost exponentially on the network nationally.

In 1998 voice and data traffic achieved parity. By the 15 end of this year it is estimated that the data traffic will be 16 five times that of voice. By the end of the year 2005, it's 17 estimated that the data traffic will be 23 times greater than 18 that of voice. Given those things in Alaska we need to start 19 thinking in terms of shared advance network today.

The only way to deploy advanced services over the 21 satellite network with limited bandwidth available is to move 22 to a shared network configuration otherwise we're going to need 23 several more satellites up there and I think that's going to be 24 too expensive.

I think we really need to start thinking in terms of the

shared network. What we've been doing is trying to deploy 1 competing networks in an area that can't sustain the single 3 network and we've been trying to develop DAMA technology in the Bush regions of Alaska and, unfortunately, all that does is regionalize -- or, I mean, marginalize these regional areas and the DAMA network will not lend itself to the extension of these 6 -- of advanced services. 7

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One of the things we heard earlier about multiple hops, if you have a regionalized DAMA area and you have to come in from 10 a real remote village into a hub and then hop again, that gives 11 you a double hop in advanced services. As we move into the 12 packet type networks, ATM frame relay just simply won't work 13 over that type of arrangement.

So I quess with that I'll close and wait for questions. 14 15 LT. GOV. ULMER: Thank you, Jack. Our next speaker will 16 be Tom Harris, president of Alaska Village Initiatives, Inc. 17 Alaska Village Initiatives, Inc. has been providing and 18 supporting economic development in Alaska for 32 years. 19 a 170 member organizations from all over the state of Alaska. 20 Tom.

21 MR. HARRIS: Thank you, Lt. Governor. We appreciate the 22 opportunity to visit like this and looking for more visits 23 online. As a company we have been involved in many adventures 24 in rural Alaska, most people remember us as the owners of the 25 AC Stores when we were the largest employer in rural Alaska.

The leadership of this organization is 17 members elected 2 from the communities at large, and those 17 members select six 3 other members from the urban community to help us with the 4 difficult decisions.

Some of the difficult decisions we've made recently is to 6 grab a hold of this thing called the internet and jump in with 7 both feet and we are. We see that because, quite frankly, many 8 of our members are jumping in ahead of us and we find ourselves 9 catching up with our more advanced villages.

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20 much going on.

In fact, that's the focus of this coming year's February 10 11 annual meeting when we will be looking at the village of the 12 21st century and trying to put in front of Alaska, rural 13 Alaska, what that village will look like in terms of its 14 schools, its utilities, its businesses. We can promise you 15 this, it will be a very different community than we know today. And I'm real pleased to see Marvin Yoder, the city manager 16 17 of Galena here today. I visited his village, let's see, 18 February, and it was a tremendous site. I felt I walked into 19 Alaska's version of the Jetsons there for a while there was so

But there is a lot of excitement and our children have a 21 22 lot to be excited about. From the visits with the elders in 23 the community of Galena, they have a lot to be excited about as 24 well, but the issue has to be access and if we don't provide 25 that access then we suffer.

Our organization is working on things like private land wildlife management, bringing the technology of land management from the Lower 48 up here and negotiating an agreement with the State and private land owners to manage the wildlife on private lands for the benefit of all concerned. This is a billion dollar industry in the Lower 48. It is actually a billion dollars industry up here, but unfortunately Alaska is not harvesting that benefit. It's leaving us because we don't have proper access to the tools. Our goal for the next year will be to provide those tools.

We are looking at issues such as safe water, treated wood, 12 fire suppression, all of those items we've been able to access 13 information on and send to our members over the internet where 14 they have access and that is the key. There's a tremendous 15 amount of growth that has to occur and here's -- here's a real 16 -- in a real nutshell here's our concern.

The fish farming industry that we all have read about in 18 the papers, we all assume that we -- we know that it's taking a 19 big bite out of Alaska. We don't know really how much. In 20 1985 the fish farming industry had 5.8 percent of the market. 21 In 1998 it had 70 percent of the market.

In the '97 and '98 , if you recall, the Bristol Bay 3 fishery was on the ropes. That fishery is now coming back and 4 we are now seeing that market share, that huge market share 5 that we lost being now over sold in new salmon. As such, in the next five years we feel we're going to see a dramatic drop in prices in salmon and we have 100 villages out there who have no other non-government source of revenue other than the salmon industry.

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During the same period of time we saw approximately 490 people a year moving out of rural communities. That's a village the size of McGrath dying every year. And, you know, we have an impetus to get this thing turned around. There's tremendous incentive out there, if not then I'm afraid we've going to see more of the same. And I'm looking forward to the outcomes of this organization's meetings and opening up the bandwidth so rural Alaska can take part in that new economy. Thank you.

LT. GOV. ULMER: Thank you very much. Our next panelist stepped in at the last moment to fill in for Bob Poe,
Commissioner of Department of Administration who had to stay in Juneau. We really appreciate Don May's willingness to do this.
Don is director of an MBA program in telecommunications management at Alaska Pacific University. Don is a former member of the State Utilities Commission so he's a little familiar with the regulatory process and, again, we really appreciate your willingness to join us at this late date as fill-in.

MR. MAY: Thank you, Lt. Governor, I wish I had worn a 25 tie, but I thought I'd be off today, at least I shaved.